

FIGURE 1

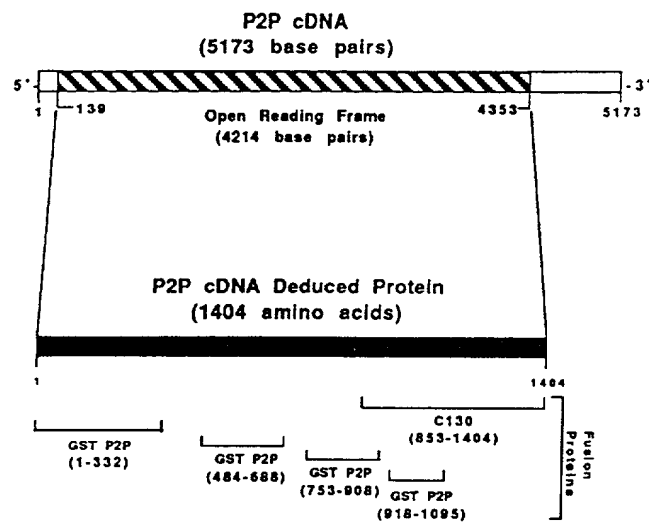


FIGURE 2

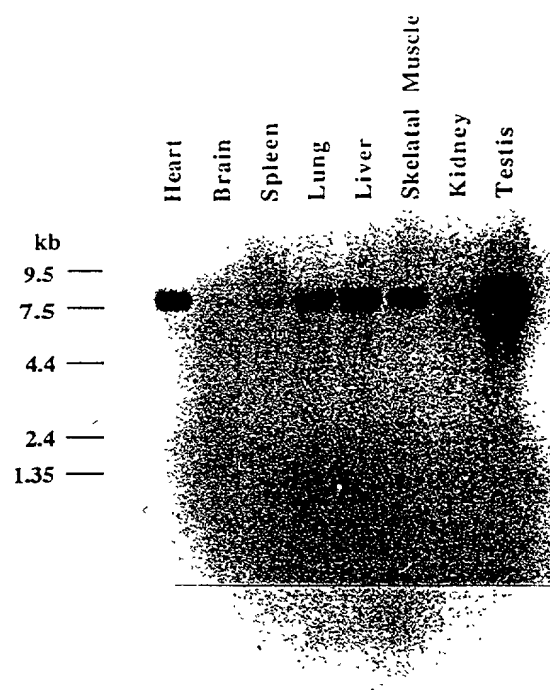
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MMEVKDPNMKGAMLTNTGKYAIPITIDAEAYAIGKKEKPPFLPEEPSSSSEDDPIPAELL 60
CLICKDINTDAVVIPCCGNSSCDECIRTTLESOKHTCPTC HQNDVSPDALIANKFRLQA 120
VNNFKNETGYTKRLRKQLPPFLFLVPPPRPLSQRNLOPRSRSPILRQQDPVVFRTVSET 180
CSDIKTAGSCSDSGTSLRPLPAPSISSLTSNQSSLAPPVSGNPSSAPAPVPDITATVSI 240
HSEKSDGPFRRSDNKLPAALTSSEHSGASSIAITAMEEKGVPGTSPWNSIFVGQSLL 300
HGQLIPTTGPVRINAARPGGGRPGWEHSNKLGYLVSPFQIIRRGERSCYRSINRGRHSE 360
RSQRTQSPSLPATPCFVFPVPPPLYPHPHTLPLPGVPPFQFSPQFPSSQPTAGYSVP 420
PPGFPPAPANISTACFSPGVPTAHSNTMPTTQAPLLSREEFYREQNDKGRESKFPYSGSS 480
YSRSSYTDSSQGLAQHIAHALTLSPSAHTLDLLHDHPPPEAEARSAMIVHMPDLMDIA 540
HARSRSPPYRRYRSRSPPEFRGQSPTKRNVPREEKEREYFNRYREVPPYDIKAYYCR 600
SVDFRDPFEKERYREWERYEWYKYYKGYAVGAQPRPSANREDFSPERLLPLNIRNSP 660
FTRGRREDYAAGQSHRNRLGNYPEKLSTRDSHNAKDNPKSKEKSENVPDGGKGNKHK 720
KHKRRNEEKGEESFNLNPELLETSRKCRGSSGIDETKTDTLFLPSRDDATPVRDEPM 780
DAESITFKSVSDKDKREKDKPKVSDKTKRKSOGSATAKKDNVLKPSKGPQEKVDGOREK 840
SPRSEPLKKAKEATKIDSVKPSSSSQKDEKVTGTPRKAHKSADTRRQSQPRTRRSK 900
RTVPKTSQKSQPVTRRRPRSLRKINYLIAREKNEREKRKSVDKDFESSMKISKVEGT 960
EIVKPSFKRMEGDVEKLETPKDKIASSTTPAKKIKLNRETGKKIGNAENASTTKEPS 1020
EKLESTSSKIKQEKVKGAKRKGAGSESSSTLVDYTTSTSTGGSPVRKSEKTDTKRTV 1080
IKTMEYNNONTAPAEVDVIMIQVPQSKWDKDDFESEEDVKTTQPIQSVGKPSIIKNV 1140
TTKPSATAKYTEKESEQPEKLQKLPKEASHELMQHELRSKSGSASSEKGRAKDREHSGSE 1200
KDNPDKRKSGAQPDKESTVDRLSEQGHFKTLSQSSKETRTSEKHESVRGSSNKNDFTPGRD 1260
KKVDYDSRDYSSSKRRDERGELARRKDSPPRGKESLSGQKSKLREERDLPPKGAESKSN 1320
SSPPRDKKPHDHKAPYETKRPCEETKPVDKNSGKEREKHAAEARNKGESSGANCHVYLTR 1380
QTLPWRRSWLLGRWRRAPSSRNPS 1404

```

FIGURE 3

A.



B.

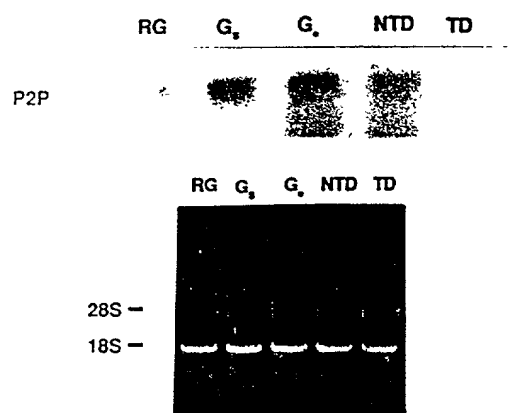
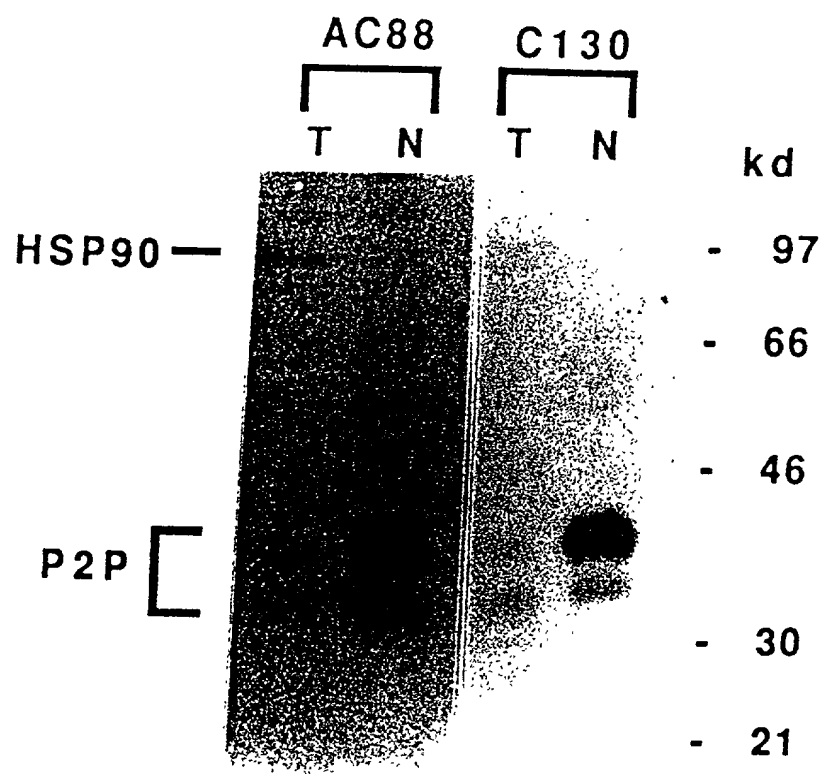


FIGURE 4



AGAATCAATGCTGCTCG

1140  
\*  
ACCTAGTTTCTCCACCA

CGGGCGACACCACAGCG

CTTTGTGCCC GTTCCACC

GGTGACCTCCTCCACAG

GTGTCCTCCTCCAGGAT

GTTCCTCACTGCCATTC

TTCTATAGAGAGCAAAAC

CAAGAGTTCATACACTG

TCCTTCAGCTGCTCACAC

GCAAGATCTGCAATGATT

CACCTCCCTATAGACGAT

CACTAAACGTAATGTACC

1920  
\*  
CACCCCCTTATGACATC

1980  
\*  
AGAACGCTACCGGGAAT

2040  
\*  
GCGGTGGGAGCTCAACC

2100  
\*  
CTCTTAATATCAGAAAT

FIGURE 5

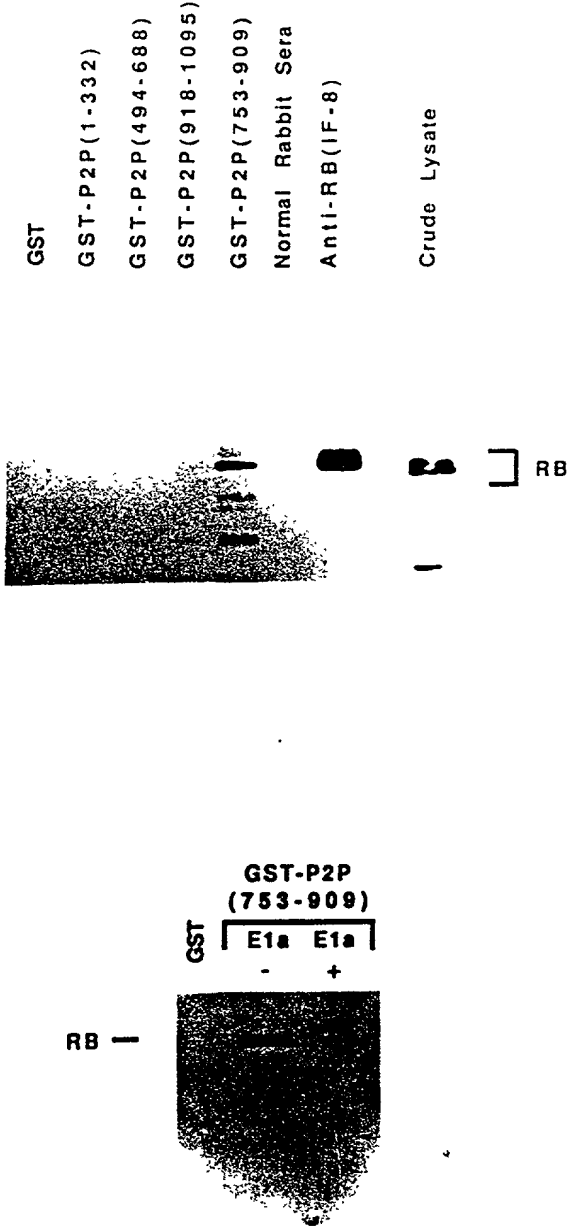


FIGURE 6 (1/5)

AGGTCCACCACCTCCATCTTACACCTGCTTCGTTGTGGTAAACCTGGTCATTATATTAAGAAT  
60  
TGCCAACAAATGGGGATAAGAACTTTGAATCTGGTCCTAGGATCAAAAAGAGCACTGGAATTCC  
120  
TAGAAGTTTTATGATGGAAGTGAAAGATCCTAACATGAAAGGTGCAATGCTTACCAACACTGGA  
180  
AAATATGCAATACCAACTATAGATGCAGAGGCCTATGCAATCGGGAAGAAAGAGAAACCACCT  
240  
TCTTACCAGAGGAGCCATCATCATCTTCAGAAGAAGATGATCCTATCCCAGCAGAGCTCTTGTG  
300  
CCTCATCTGCAAAGACATCATGACTGATGCTGTGGTCATTCCCTGCTGTGGAAACAGTTCATGT  
360  
GATGAATGTATAAGAACGACACTCTTGGAGTCAGATAAACATACATGTCCAACATGTCACCAAA  
420  
ATGATGTTTCTCCTGATGCTTTAATTGCCAACAAGTTTTTACGACAGGCTGTTAATAACTTTAA  
480  
AAATGAACTGGCTATACAAAACGACTACGAAAACAGTTACCTCCATTTTTATTTTTAGTACCA  
540  
CCACCAAGACCACTCAGTCAGCGGAACCTACAGCCTCGTAGTAGATCTCCAATACTAAGACAGC  
600  
AGGATCCTGTAGTATTCAGGTACACTGTCTCGCCTACCTGCTCCGATACTAAGACAGCAGGATC  
660  
CTGTAGTGATTCAAGGTACACTGTCTCGCCTACCTGCTCCGCTATATCTTCATTAACCTCTAAT  
720  
CAGTCTTCCTTGGCCCCCTCCTGTGTCTGGAATCCGTCTTCTGCTCCAGCTCCAGTACCTGATA  
780  
TAACTGCAACCGTGTCTATATCAGTCCACTCAGAAAAATCGGATGGACCTTTTCGGGATTCTGA  
840  
TAATAAATTATTGCCAGCTGCCGCCCTTACATCAGAACATTCAAAGGGAGCCTCTTCAATTGCT  
900  
ATTACTGCTCTTATGGAAGAAAAAGGGGTACCAGGTACCAGTCCTTGGAATCCATCTTTGTTG  
960  
1020  
1080

FIGURE 6 (2/5)

GACAGTCATTATTACATGGACAGTTGATTCCCACAACCTGGCCCAGTAAGAATCAATGCTGCTCG  
1140  
\*  
TCCAGGTGGTGGCCGGCCAGGCTGGGAGCATTCCAACAAGCTTGGGTACCTAGTTTCTCCACCA  
1200  
\*  
CAGCAAATTAGAAGAGGAGAAAGAAGCTGTTACAGAAGTATAAACC GCGGGCGACACCACAGCG  
1260  
\*  
AACGATCACAGAGGACTCAAAGCCCATCACTTCCAGCAACTCCATGCTTTGTGCCC GTTCCACC  
1320  
\*  
ACCTCCTTTGTATCCGCCTCCTCCCCATACACTTCTCTTCTCCAGGTGTACCTCCTCCACAG  
1380  
\*  
TTTTCTCCTCAGTTTCCCTCCTCCCAGCCTCCAACAGCAGGATATAGTGTCCCTCCTCCAGGAT  
1440  
\*  
TTCCACCAGCTCCTGCCAATATATCAACAGCTTGCTTTTCACCAGGTGTTCCCACTGCCCATTC  
1500  
\*  
AAATACCATGCCACAACACAAGCACCTCTTTTGTCCAGGGAAGAATTCTATAGAGAGCAAAAC  
1560  
\*  
GACAAAGGAAGAGAGTCTAAATTTCCCTATAGTGGGT CATCGTATTCAAGAAGTTCATACACTG  
1620  
\*  
ACTCAAGTCAAGGTCTGGCTCAACACATTACGCTCTTACTCTCAGTCCTTCAGCTGCTCACAC  
1680  
\*  
TCTCGATCTTCTTCAGGATCATCCCCATCCTCCAGAAGAGGCAGAGGCAAGATCTGCAATGATT  
1740  
\*  
GTTACATGCCAGATCTCATGGATATCGCCCATGCTAGGTCAAGGTCACTCCCTATAGACGAT  
1800  
\*  
ATCGCTCACGGTCCAGATCTCCTCCAGAATTTAGGGGACAGTCTCCCACTAAACGTAATGTACC  
1860  
\*  
TCGAGAAGAGAAAGAACGTGAGTATTTTAATAGATACAGAGAAGTTCCACCCCTTATGACATC  
1920  
\*  
1980  
\*  
AAAGCCTATTATGGGCGGAGTGTGACTTTAGAGACCCATTTGAGAAAGAACGCTACCGGGAAT  
2040  
\*  
GGGAAAGGAAATACCGAGAGTGGTATGAGAAGTACTACAAAGGGTACGCGGTGGGAGCTCAACC  
2100  
\*  
TAGACCCTCAGCCAATAGAGAGGACTTTTCTCCAGAGAGACTCTTACCTCTTAATATCAGAAAT

FIGURE 6 (3/5)

2160  
\*  
TCACCCCTTCACAAGAGGCCGAGAGAAGACTATGCTGCTGGACAAAGTCATAGAAATAGAAATC

2220  
\*  
TAGGTGGCAACTATCCAGAAAAGCTTTCAACAAGGGACAGTCACAATGCAAAAGATAATCCAAA

2280  
\*  
ATCGAAGGAGAAGGAGAGTGAGAATGTTCCAGGAGACGGCAAAGGGAACAAGCATAAGAAACAC

2340  
\*  
AGGAAACGAAGAAACGAAGAAAAGGGGAAGAGAGTGAGAGCTTCCTGAACCCAGAGCTACTGG

2400  
\*  
AGACGTCTAGGAAATGCAGGGGATCGTCAGGGATTGATGAAACGAAGACAGATACACTGTTTGT

2460  
\*  
TCTCCCAAGCAGAGACGATGCTACACCTGTTAGGGATGAGCCAATGGACGCAGAATCGATCACT

2520  
\*  
TTCAAGTCAGTATCTGACAAAGACAAGAGGGAAAAGGATAAGCCAAAAGTAAAAAGTGACAAGA

2580  
\*  
CCAAACGGAAAAGTGACGGGTCTGCTACAGCCAAGAAAGACAATGTTTTAAACCTTCTAAAGG

2640  
\*  
ACCTCAAGAAAAGGTAGATGGAGACCGTGAAAAGTCTCCTCGGTCTGAGCCGCCACTCAAAAAA

2700  
\*  
GCCAAAGAGGAGGCTACAAAGATTGACTCTGTAAACCTTCTCGTCTTCTCAGAAGGATGAGA

2760  
\*  
AGGTCACTGGAACCCCTAGAAAAGCCATTCTAAATCTGCAAAGACACCAGGAGGCAAAGCCA

2820  
\*  
GCCAAGGACGAGAAGGTCAAAAAGGACTGTTCCAAAGACATCAAGTCAGAAAAGCCAGCCAGTA

2880  
\*  
2940  
\*  
AGGACGAGAAGGCCAAGAAGCCTGAGAAAAATAAACTACTTGATAGCAAGGGAGAAAAACGAAA

3000  
\*  
GAGAAAAACGGAAGAAGAGTGTAGATAAAGATTTTGAAGTCGTCTTCAATGAAAATCTCTAAAGT

3060  
\*  
AGAAGGAACAGAAATAGTGAAACCATCACCAAAACGGAAGGTGATGTTGAAAAGCTG

3120  
\*  
GAAAGGACCCAGAAAAGGACAAGATTGCATCATCACTACTCCAGCCAAAAAAATCAAACCTCA

3180  
\*



FIGURE 6 (4/5)

ACAGAGAACTGGAAAAAATTGGAAATGCAGAAATGCATCTACTACAAAAGAACCTCTGA

3240

AAAATTGGAGTCAACATCTAGCAAATCAAACAGGAAAAAGTCAAGGGAAAGGCCAAACGGAAA

3300

GTAGCTGGGTCGGAAGGCTCCAGCTCCACGCTTGTGGATTACACCAGTACAAGTTCAACTGGAG

3360

GCAGTCCTGTGAGGAAATCTGAAGAAAAGACAGATACAAAGCGAACAGTCATTAAACTATGGA

3420

GGAATATAATAATGATAACACAGCTCCTGCTGAAGATGTTATAATTATGATCCAGGTTCTCAG

3480

TCCAAATGGGATAAAGATGACTTTGAGTCTGAAGAAGAAGATGTAAAAACACACAACCTATAC

3540

AGAGTGTAGGGAAACCATCGAGTATTATAAAAAATGTCACTACTAAGCCATCGGCTACGGCTAA

3600

GTACACCGAGAAGGAAAGCGAGCAGCCCAGAACTGCAGAAGCTTCCAAGGAGGCGAGCCAC

3660

GAGCTGATGCAGCACGAGCTCAGGAGCTCAAAGGGCAGTGCGTCCAGTGAGAAGGGCAGAGCCA

3720

AGGACCGGGAGCACTCAGGGTCGGAGAAGGACAACCTGACAAGAGGAAGAGCGGTGCCAGCC

3780

AGACAAGGAGAGCACTGTGGACCGCCTGAGTGAGCAGGGACATTTTAAGACTCTCTCTCAGTCT

3840

3900

TCCAAAGAGACCAGGACTTCAGAGAAGCACGAGTCTGTTCTGGTTCCTCAAATAAGACTTCA

3960

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4020

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4080

CAGAAAAGCAAGCTGAGGGAGGAGAGAGATTTACCTAAAAAGGGGGCCGAGTCAAAAAAAGTA

4140

ATTCTAGCCCCCAAGAGACAAAAGCCTCATGATCATAAAGCCCCCTACGAACTAAACGCCC

4200

ATGTGAAGAGACAAAGCCTGTAGATAAAAACTCTGGGAAGGAGCGGGAGAAGCATGCTGCTGAA

TCTCTCTCAGTCT

FIGURE 6 (5/5)

4260

\*

GCTCGCAATGGGAAAGAGTCCAGTGGTGCAAAGTCCCATGTATACCTAACCCGCCAGACCCTCC

4320

\*

CATGGAGAAGGAGCTGGCTGCTGGGCAGGTGGAGAAGAGCGCCGTCAAGCCGAAACCCAGCTG

4380

\*

AGCCATTCTCGAGGCTTTCCTCTGACCTGACCCGGGAGACGAACGAGGCAGCCTTTGAACCAG

4440

\*

ATTATAATGAGAGCGACAGTGAGAGTAATGTGTCTGTGAAGGAAGAAGAAGCTGTTGCCAGTAT

4500

\*

CTCCAAGGACTTGAAAGAGAAAACAACAGAGAAAGCGAAAGAGAGCTTGACTGTAGCAACGGCC

4560

\*

AGCCAGCCAGGTGCAGACAGGAGCCAGAGCCAAAGTAGCCAGTGTTAGTCAGTAGAGTCATAG

4620

\*

CCTTCGGAGCCAGACCCGAAGCCACAGCAGCAGTGCCAGCTCAGCCGGAAGGCCAGGACAGCAA

4680

\*

AAAGAAGAAGAAGAAGGAGAAGAAAAACGACAAGAAGCATAAAAAGCACAAGAAGCACAAAG

4740

\*

AAGCACGCAGGCCGACGGCGACGTGGAGAAGAGCCAGAAACACAAACACAAGAAGAAGAAGGCC

4800

\*

4860

\*

AAGAAGAACAAAGACAAGGAGAAGGAGAAAGATGACCAAAAAGTGAGATCTGTCACTGTGTGAA

4920

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4980

\*

AGATTCCAGCCTTGTAATAATGAATGGAAGACCCTGTGCTGCACTTAAAAGTATTTGCTGCTT

5040

\*

GATTATTTTATTTTACATCAGAGCTTTATAACGAACTTTTGTACAGAATTGTGAGTTGTGACC

5100

\*

ATGGAACAGTGAGAGGTTTTGCTAGGGCCTATTATTTTAAACCACCATTAATTAGTTGGGGTGG

5160

\*

AGTTTACTGTACTGTGAAATTTTCACATTTGAATTTTTTAATTGCCTGGCAA